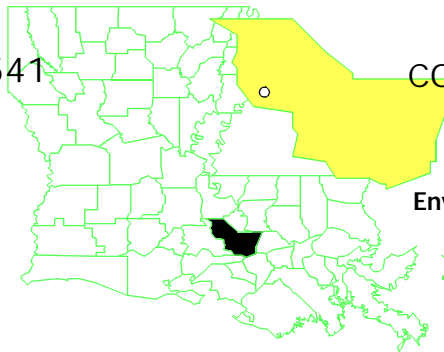


BAYOU SORREL

LOUISIANA

EPA ID# LAD980745541



EPA REGION 6

CONGRESSIONAL DISTRICT 06

Iberville Parish

Other Names:

Environmental Purification Advancement
Halliburton Services (CLAW)
Grand River Pits (local name)

Updated 7/1/97

Site Description

- Location:**
- 20 miles SW of Baton Rouge, six miles north of the Town of Bayou Sorrel.
 - Iberville Parish, Louisiana
- Population:**
- Less than 100 year-round residents within 5 miles of site.
 - 33,000 in Iberville Parish
- Setting:**
- Remote backswamp environment.
 - Three permanent residences within two miles.
 - Nearest drinking water well is 1/2 mile; wells used for washing/bathing, not drinking.
 - Total site = 265 acres.
 - Three landfill areas, four closed-out ponds, one landfarm area.
 - Total waste disposal areas = 40-50 acres.
- Hydrology:**
- 75-125 feet of clays & silts beneath site.
 - Below clays - sand, gravels & silts possibly to 700 ft. below land surface.
 - This sand, silt and gravel layer is the Plaquemine aquifer.
 - Ground water withdrawal from the Plaquemine aquifer is minimal, due to low population density and poor ground water quality.

Wastes and Volumes

Primary Contaminants:

- Process wastes from pesticide/herbicide manufacturing.
- Sulfide-containing wastes from hydrocarbon processing and exploration.
- Spent wash from boiler and process-equipment cleaning.

Volume:

- Approximately 1,000,000 cubic feet of contaminated soil and sediments.

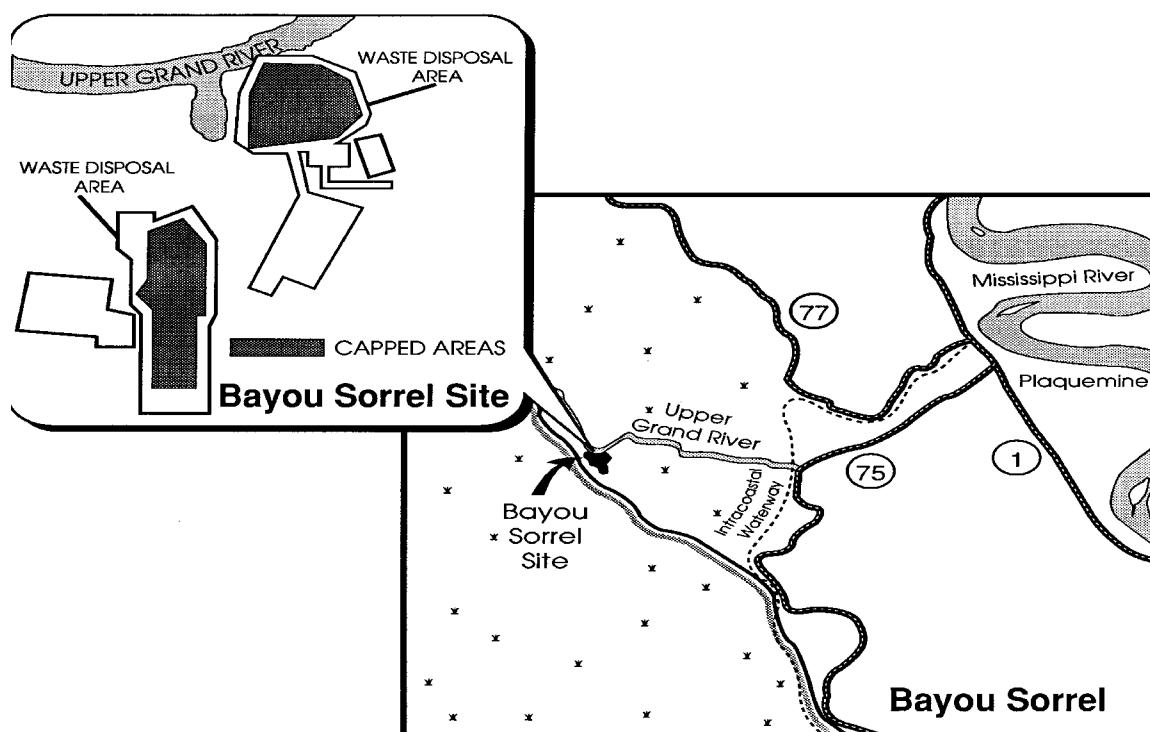
Site Assessment and Ranking

NPL LISTING HISTORY

Site HRS Score: 34.69
Proposed Date: 12/30/82
Final Date: 9/08/83
NPL Update: Original

- The Potentially Responsible Party (PRP) challenged the ranking package with respect to the air score using an observed air release from four years prior. This release resulted in one death. No changes were made to the package.

Site Map and Diagram



The Remediation Process

Site History:

- 1977-1978: Site received wastes from Petrochemical Industries in LA, TX, AR, and MS. Site operated by EPAC, Inc., sister Company of CLAW, Inc. (Injection well)
- 1978-1979: Site closure overseen by Louisiana after death of a truck driver.
- 1981-1982: the Louisiana Department of Environmental Quality (LDEQ) investigates site after complaints from area residents. EPA investigates, places site on NPL.
- 1983: Steering committee of 23 main waste contributors is formed. Other smaller parties later entered de minimis settlements with EPA.
- 1984-1986: Site studies and cleanup plan developed.
- 1987: Site soil cleanup plan negotiated.
- 1988-1989: Consent decree signed between parties for remedial design and remedial action (RD/RA). Remedial construction begins. Protective caps and slurry walls installed.
- 1990: Construction completed. Operations and Maintenance begins.
- September 1993: The first 5-Year Review (necessary because wastes remain on site) was completed.

Health Considerations:

- Direct Contact: Exposure to contaminated soil/sediment
- Ground Water: Ingestion of contaminated source
- Surface Water: Ingestion of contaminated source

Other Environmental Risks:

- Same risks as above with respect to aquatic organisms and on site game animals.

Record of Decision

Signed: November 14, 1986

- The selected remedy for the site includes installation of multi-layer caps, slurry walls, and gas venting systems.
- Extensive operation and maintenance plan with ground water monitoring.

Other Remedies Considered and Reason Not Chosen

- | | |
|-----------------------------------|------------------------------|
| 1. On site incineration | Takes 10-30 years, > \$200M |
| 2. Off site RCRA landfill | Not cost effective |
| 3. No Action | Not protective |
| 4. Clay cap (without geomembrane) | Poor long-term effectiveness |

Community Involvement

- Community Involvement Plan: Developed 06/84, revised 07/90.
- Open houses and workshops: 9/18/90, 9/91 (reconnaissance visit in preparation for ribbon cutting)
- Proposed Plan Fact Sheet and Public Meeting: 01/86.
- ROD Fact Sheet:
- Milestone Fact Sheets: 7/88, 3/89, 3/90, 9/90
- Citizens on site mailing list: 56
- Constituency Interest: Citizens supportive of EPA's efforts.
- Site Repository: Iberville Parish Library

Technical Assistance Grant

- Availability Notice: 02/13/89
- Letters of Intent Received: None
- Grant Award: N/A

Fiscal and Program Management

- Remedial Project Manager: Stephen L. Tzhone, 214-665-8409, EPA (6SF-LP)
- State Contact: Rich Johnson, 504-765-0487, LDEQ
- Community Involvement: Verne McFarland, 214-6665-6617, EPA (6SF-PO)
- Attorney: Keith W. Smith, 214-665-2157, EPA (6SF-DL)
- State Coordinator: Joe Massey, 214-665-7408, EPA (6SF-LP)
- Prime Contractor: ERM Southwest, Inc.
- Oversight Contractor: None

Cost Recovery: PRP Lead (Enforcement)

- PRPs Identified: 95
- Viable PRP: 35
- Enforcement Options:
- March 17, 1988: Consent Decree with settling PRPs for RD/RA lodged. \$800,000 for response costs prior to June 15, 1987 and up to \$1,885,000 for future oversight costs.
- July 26, 1989: Consent Decree with BFI for \$185,000 lodged.
- 1992: DOJ Referral issued for cost recovery from Cyril Hinds, recalcitrant former owner/operator.

Present Status and Issues

- Site is in long-term Operation & Maintenance with all remedial construction activities completed.
- Current ground water monitoring data indicates cap and slurry wall performing as designed.
- The Notice of Intent to Delete was published in the Federal Register on June 4, 1997. This site will expect final deletion from the NPL in July 1997.

Benefits

- Over 1 million cubic feet of waste has been contained in a slurry wall, multilayered clay cap system. All contaminants have been contained and exposure potential has been eliminated.
- The remedy ensures protection of nearby sensitive environmental areas as well as protection of underlying aquifer used by thousands of people in the Parish.
- The remedy includes extensive monitoring to ensure protectiveness is maintained.
- The EPA continues to monitor the site to ensure that the site is safe and no longer poses a threat to public health or the environment.